

INCH-POUND

MIL-R-93/20C
5 October 2001
SUPERSEDING
MIL-R-93/20B
22 November 1968

MILITARY SPECIFICATION
RESISTORS, FIXED, WIRE WOUND (ACCURATE),
STYLE RB71

INACTIVE FOR NEW DESIGN AFTER 22 NOVEMBER 1968.
USE MIL-R-39005/6

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements for style RB71, accurate, wire wound, fixed resistors.

1.2 Part or Identifying Number (PIN). Resistors covered by this specification are identified by a PIN which consists of the style of this specification and a coded number. The PIN is in the following form:

| | |
|-------------------------------|-----------------|
| RB71 | CE12701D |
| _____ | _____ |
| | |
| _____ | _____ |
| Specification style number | Coded number |

2 APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of the specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center, Columbus, ATTN: DCSS-VAT, Post Office Box 3990, Columbus, Ohio 43216-5000, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of the document or by letter.

AMSC N/A
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2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-R-93 - Resistors, Fixed, Wire Wound, (Accurate), General Specification for.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Document Automation and Production Service, Building 4D, (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated specifications, specification sheets, or MS sheets), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 General. The requirements for acquiring the product described herein shall consist of this document and MIL-R-93.

3.2 Interface and physical dimensions. Resistors shall meet the interface and physical dimensions specified on figure 1.

3.3 Resistance values and resistance tolerances. The maximum and minimum resistance values, and resistance tolerance shall be as specified in table I.

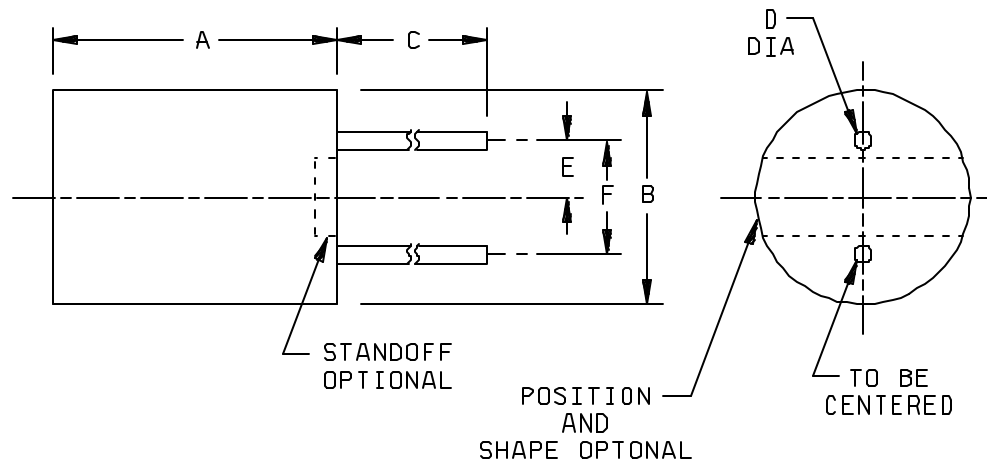
TABLE I. Resistance values and resistance tolerance.

| Tolerance (± percent) | Symbol | Minimum resistance (ohms) | Maximum resistance (ohms) |
|--------------------------|--------|---------------------------------|---------------------------------|
| 0.05 | A | 100 | 0.100 M |
| 0.10 | B | 10 | 0.100 M |
| 0.50 | D | 0.1 | 0.100 M |
| 1.00 | F | 0.1 | 0.100 M |

3.4 Power rating. Power rating shall be 0.125 watt.

3.5 Maximum voltage. Maximum voltage shall be 150 volts direct current or peak.

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| <u>Dimension</u> | <u>Inches</u> | <u>mm</u> |
|------------------|---------------|-------------|
| A | 0.312 ±0.031 | 7.92 ±0.79 |
| B | 0.250 ±0.031 | 6.35 ±0.79 |
| C | 1.000 ±0.125 | 25.40 ±3.18 |
| D | 0.025 ±0.002 | 0.64 ±0.05 |
| E | 0.100 ±0.020 | 2.54 ±0.51 |
| F | 0.200 ±0.010 | 5.08 ±0.25 |

NOTE:

Metric equivalents (to the nearest 0.01 mm) are given for general information only.

FIGURE 1. Style RB71.

4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection shall be in accordance with MIL-R-93.

5. PACKAGING

5.1 Packaging. For acquisition purposes, packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products or by contacting the responsible packaging activity.

6. NOTES

6.1 Intended use. The notes specified in MIL-R-93 are applicable to this specification.

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6.2 Acquisition requirements. Acquisition documents must specify the following.

- a. Title, number, and date of this specification.
- b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2.1).
- c. Packaging requirements (see 5.1).

6.3 Supplementary insulation. Where potential to ground is over 250 volts, supplementary insulation should be provided.

6.4 Substitution data. The resistors specified herein are not for use in design after 22 November 1968. They are authorized for use in design contracts effective prior to or on 22 November 1968, and to support existing military equipment. Resistors specified in MIL-PRF-39005/6 are preferred for design and regardless of the failure rate designation can be used as substitutes for the inactivated resistors of the same resistance value and tolerance of this specification.

6.5 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:

Army - CR
Navy - EC
Air Force - 11

Preparing activity:

DLA - CC

Review activities:

Army - AR, AV, CR4, MI
Navy - MC
Air Force - 19, 99

(Project 5905-1625-08)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.
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NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of Requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-R-93/20C

2. DOCUMENT DATE (YYMMDD)
5 October 2001

3. DOCUMENT TITLE
RESISTORS, FIXED, FILM (HIGH STABILITY), GENERAL SPECIFICATION FOR

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)
(1) Commercial

(2) DSN
(if applicable)

7. DATE SUBMITTED
(YYMMDD)

8. PREPARING ACTIVITY

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IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:
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